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By: Lynda S. Kalemba
Lynda S. Kalemba

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) : Coggan et al.
TITLE : NOVEL BLUE EMITTERS FOR USE IN ORGANIC ELECTROLUMINESCENCE DEVICES
APPLICATION NO. : Not Yet Assigned
FILED : Herewith
CONFIRMATION NO. : Unknown
EXAMINER : Not Yet Assigned
ART UNIT : Unknown
ATTORNEY DOCKET NO. : D/A3380
XERZ 2 00634

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, 1.98 and MPEP § 609, applicant(s) submit(s) the following Disclosure Statement concerning art of which the applicant(s) is(are) aware. A copy of PTO-1449 is enclosed herewith.

In accordance with the United States Patent and Trademark OfficeOG Notice dated 05 August 2003, waiving the requirement under 37 C.F.R. §1.98(a)(2)(i), for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003, Applicant(s) has not enclosed copies of the cited U.S. patents with this Disclosure.

Under § 1.98(a)(3), no concise explanation of relevance is required for information that is in the English language. Accordingly, the enclosed art require no further explanation (or no translation is available).

Consideration of the appropriate paragraph(s) indicated below is respectfully requested:

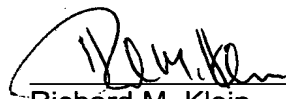
- ☒ **WITHIN THREE MONTHS OF FILING:** Under § 1.97(b)(1), this Information Disclosure Statement is being filed within three months of the filing date of the application. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 24-0037.

- ☒ **BEFORE FIRST OFFICE ACTION:** Under § 1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 24-0037.
- ☐ **INTERNATIONAL SEARCH REPORT:** Under § 1.97(e)(1), the undersigned certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. Although it is believed no fee is necessary, any deficiency in fees should be charged to Deposit Account No. 24-0037.
- ☐ **BEFORE FINAL ACTION/WITH FEE:** Under § 1.97(c)(2), this information shall be considered if filed before the mailing date of a final action if accompanied by a fee in the amount of \$180.00 as required by §1.17(p). Accordingly, the necessary fee accompanies this Information Disclosure Statement. Any overpayment or deficiency can be charged to Deposit Account No. 24-0037.
- ☐ **PRIORITY CLAIM:** The attached PTO 1449 Form includes all patents, publications, or other information previously cited by or submitted to the Office in one or more prior applications from which the present application claims priority. These one or more prior applications are identified in the papers accompanying the filing of this application. In accordance with 609 MPEP, only copies of art not previously submitted are enclosed.

Respectfully submitted,

FAY, SHARPE, FAGAN,
MINNICH & McKEE, LLP

February 9, 2004



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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)	Complete if Known	
	Application Number	Not Yet Assigned
	Filing Date	Herewith
	First Named Inventor	Coggan
	Art Unit	Unknown
Examiner Name	Unkonwn	
Sheet 1 of 2	Attorney Docket No.	D/A3380 (XERZ 2 00634)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication/Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-3,530,325	08-21-1967	W. Mehl et al.	
	AB	US-4,539,507	09-03-1985	VanSlyke et al.	
	AC	US-4,583,848	04-22-1986	Durbin	
	AD	US-4,720,432	01-19-1988	VanSlyke et al.	
	AE	US-4,769,292	09-06-1988	Tang et al.	
	AF	US-5,151,629	09-29-1992	VanSlyke	
	AG	US-5,409,783	04-25-1995	Tang et al.	
	AH	US-5,516,577	05-14-1996	Matsuura et al.	
	AI	US-5,607,876	03-04-1997	Biegelsen et al.	
	AJ	US-5,763,110	06-09-1998	Hu et al.	
	AK	US-5,846,666	12-08-1998	Hu et al.	
	AL	US-5,925,472	07-20-1999	Hu et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	AM	JP 10-003037	12-04-1998	Xerox Corp.		<input type="checkbox"/>
	AN	JP 11-020235	01-26-1999	Xerox Corp.		<input type="checkbox"/>

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published	T
	AO	WU ET AL., "Integrated Three-Color Organic Light-Emitting Devices", <u>Appl. Phys. Lett.</u> , 69 (21), 18 November 1996	<input type="checkbox"/>
	AP	ANTON ET AL., "Synthesis of n-Alkyl-Substituted Perylenes and Terrylenes via Alkali-Metal Induced Cyclization of Oligonaphthylenes", <u>Chem. Ber.</u> , 1992, 125, 2325-2330	<input type="checkbox"/>
	AQ	NOZAKI ET AL., "The Double N-Arylation of Primary Amines: Toward Multisubstituted Carbazones with Unique Optical Properties", <u>Agnew. Chem. Int. Ed.</u> , 2003, 42, 2051-2053	<input type="checkbox"/>
	AR	FANTA, "The Ullmann Synthesis of Biaryls", 1945-1963, <u>Department of Chemistry, Illinois Institute of Technology, Chicago 16, Illinois</u> , Received May 16, 1964	<input type="checkbox"/>

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S)	Substitute for form 1449A/PTO		Complete if Known	
			Application Number	Not Yet Assigned
			Filing Date	Herewith
			First Named Inventor	Coggan
			Art Unit	Unknown
			Examiner Name	Unkonwn
Sheet 2 of 2			Attorney Docket No.	D/A3380 (XERZ 2 00634)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document No. Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BA	US-5,932,363	08-03-1999	Hu et al.	
	BB	US-5,942,340	08-24-1999	Hu et al.	
	BC	US-5,952,115	09-14-1999	Hu et al.	
	BD	US-6,137,523	10-24-2000	Fork	
	BE	US-6,479,172	11-12-2002	Hu et al.	
	BF	US-			
	BG	US-			
	BH	US-			
	BI	US-			
	BJ	US-			
	BK	US-			
	BL	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code-Number Kind Code (if known)				
	BM					<input type="checkbox"/>

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T
	BN	FANTA, "The Ullman Synthesis of Biaryls", Department of Chemistry, University of Rochester, Rochester, NY, Received August 10, 1945				<input type="checkbox"/>
	BO	GOSHAEV ET AL., "The Ullmann Reaction", Russian Chemical Reviews, 41 (12), 1972, U.D.C. 547.223, pgs. 1046-1059				<input type="checkbox"/>
	BP	ZHENG ET AL., "A Binaphthyl-Based Conjugated Polymer for Light-Emitting Diodes", Chem. Mater. 2000, 12, 13-15				<input type="checkbox"/>
	BQ	PU, "Novel Chiral Conjugated Macromolecules for Potential Electrical and Optical Applications", Macromol. Rapid Comm., 21, 795-809 (2000)				<input type="checkbox"/>

Examiner Signature		Date Considered	
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